

**PERMIAN BASIN  
ENVIRONMENTAL LAB, LP  
1400 Rankin Hwy  
Midland, TX 79701**



## Analytical Report

**Prepared for:**

Aaron Pachlhofer  
Fasken Oil & Ranch, Ltd.  
6101 Holiday Hill Road  
Midland, TX 79707

Project: Gossett '20' Battery

Project Number: [none]

Location: Eddy County, NM

Lab Order Number: 7D21003



NELAP/TCEQ # T104704156-16-7

Report Date: 05/02/17

Fasken Oil & Ranch, Ltd.  
6101 Holiday Hill Road  
Midland TX, 79707

Project: Gossett '20' Battery  
Project Number: [none]  
Project Manager: Aaron Pachlhofer

Fax: 43-687-1570

**ANALYTICAL REPORT FOR SAMPLES**

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
S-1 Surface	7D21003-01	Soil	04/20/17 12:15	04-21-2017 10:00
S-1 1"	7D21003-02	Soil	04/20/17 12:20	04-21-2017 10:00
S-2 Surface	7D21003-03	Soil	04/20/17 12:22	04-21-2017 10:00
S-2 1"	7D21003-04	Soil	04/20/17 12:23	04-21-2017 10:00

Fasken Oil & Ranch, Ltd.  
 6101 Holiday Hill Road  
 Midland TX, 79707

Project: Gossett '20' Battery  
 Project Number: [none]  
 Project Manager: Aaron Pachlhofer

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**S-1 Surface**  
**7D21003-01 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Permian Basin Environmental Lab, L.P.**

**Organics by GC**

Benzene	ND	0.0227	mg/kg dry	20	P7D2803	04/26/17	04/27/17	EPA 8021B	
Toluene	ND	0.0455	mg/kg dry	20	P7D2803	04/26/17	04/27/17	EPA 8021B	
<b>Ethylbenzene</b>	<b>0.101</b>	0.0227	mg/kg dry	20	P7D2803	04/26/17	04/27/17	EPA 8021B	
<b>Xylene (p/m)</b>	<b>0.342</b>	0.0455	mg/kg dry	20	P7D2803	04/26/17	04/27/17	EPA 8021B	
<b>Xylene (o)</b>	<b>0.122</b>	0.0227	mg/kg dry	20	P7D2803	04/26/17	04/27/17	EPA 8021B	
<i>Surrogate: 4-Bromofluorobenzene</i>		101 %	75-125		P7D2803	04/26/17	04/27/17	EPA 8021B	
<i>Surrogate: 1,4-Difluorobenzene</i>		75.2 %	75-125		P7D2803	04/26/17	04/27/17	EPA 8021B	

**General Chemistry Parameters by EPA / Standard Methods**

<b>Chloride</b>	<b>5.01</b>	1.14	mg/kg dry	1	P7D2103	04/21/17	04/24/17	EPA 300.0	
<b>% Moisture</b>	<b>12.0</b>	0.1	%	1	P7D2501	04/25/17	04/25/17	% calculation	

**Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M**

<b>C6-C12</b>	<b>41.6</b>	28.4	mg/kg dry	1	P7D2403	04/21/17	04/24/17	TPH 8015M	
<b>&gt;C12-C28</b>	<b>106</b>	28.4	mg/kg dry	1	P7D2403	04/21/17	04/24/17	TPH 8015M	
<b>&gt;C28-C35</b>	<b>ND</b>	28.4	mg/kg dry	1	P7D2403	04/21/17	04/24/17	TPH 8015M	
<i>Surrogate: 1-Chlorooctane</i>		106 %	70-130		P7D2403	04/21/17	04/24/17	TPH 8015M	
<i>Surrogate: o-Terphenyl</i>		101 %	70-130		P7D2403	04/21/17	04/24/17	TPH 8015M	
<b>Total Petroleum Hydrocarbon C6-C35</b>	<b>148</b>	28.4	mg/kg dry	1	[CALC]	04/21/17	04/24/17	calc	

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**S-1 1"**  
**7D21003-02 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Permian Basin Environmental Lab, L.P.**

**Organics by GC**

Benzene	ND	0.0238	mg/kg dry	20	P7D2803	04/26/17	04/27/17	EPA 8021B	
<b>Toluene</b>	<b>0.201</b>	0.0476	mg/kg dry	20	P7D2803	04/26/17	04/27/17	EPA 8021B	
<b>Ethylbenzene</b>	<b>0.845</b>	0.0238	mg/kg dry	20	P7D2803	04/26/17	04/27/17	EPA 8021B	
<b>Xylene (p/m)</b>	<b>2.00</b>	0.0476	mg/kg dry	20	P7D2803	04/26/17	04/27/17	EPA 8021B	
<b>Xylene (o)</b>	<b>0.875</b>	0.0238	mg/kg dry	20	P7D2803	04/26/17	04/27/17	EPA 8021B	
<i>Surrogate: 1,4-Difluorobenzene</i>		67.8 %		75-125	P7D2803	04/26/17	04/27/17	EPA 8021B	S-GC
<i>Surrogate: 4-Bromofluorobenzene</i>		93.6 %		75-125	P7D2803	04/26/17	04/27/17	EPA 8021B	

**General Chemistry Parameters by EPA / Standard Methods**

<b>Chloride</b>	<b>10.7</b>	1.19	mg/kg dry	1	P7D2103	04/21/17	04/24/17	EPA 300.0	
<b>% Moisture</b>	<b>16.0</b>	0.1	%	1	P7D2501	04/25/17	04/25/17	% calculation	

**Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M**

<b>C6-C12</b>	<b>205</b>	149	mg/kg dry	5	P7D2505	04/24/17	04/24/17	TPH 8015M	
<b>&gt;C12-C28</b>	<b>1430</b>	149	mg/kg dry	5	P7D2505	04/24/17	04/24/17	TPH 8015M	
<b>&gt;C28-C35</b>	<b>297</b>	149	mg/kg dry	5	P7D2505	04/24/17	04/24/17	TPH 8015M	
<i>Surrogate: 1-Chlorooctane</i>		81.0 %		70-130	P7D2505	04/24/17	04/24/17	TPH 8015M	
<i>Surrogate: o-Terphenyl</i>		86.9 %		70-130	P7D2505	04/24/17	04/24/17	TPH 8015M	
<b>Total Petroleum Hydrocarbon C6-C35</b>	<b>1930</b>	149	mg/kg dry	5	[CALC]	04/24/17	04/24/17	calc	

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**S-2 Surface**  
**7D21003-03 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Permian Basin Environmental Lab, L.P.**

**Organics by GC**

Benzene	ND	0.0235	mg/kg dry	20	P7E0107	04/28/17	04/28/17	EPA 8021B	
<b>Toluene</b>	<b>0.0532</b>	0.0471	mg/kg dry	20	P7E0107	04/28/17	04/28/17	EPA 8021B	
<b>Ethylbenzene</b>	<b>0.140</b>	0.0235	mg/kg dry	20	P7E0107	04/28/17	04/28/17	EPA 8021B	
<b>Xylene (p/m)</b>	<b>0.507</b>	0.0471	mg/kg dry	20	P7E0107	04/28/17	04/28/17	EPA 8021B	
<b>Xylene (o)</b>	<b>0.202</b>	0.0235	mg/kg dry	20	P7E0107	04/28/17	04/28/17	EPA 8021B	
<i>Surrogate: 4-Bromofluorobenzene</i>		93.0 %	75-125		P7E0107	04/28/17	04/28/17	EPA 8021B	
<i>Surrogate: 1,4-Difluorobenzene</i>		80.9 %	75-125		P7E0107	04/28/17	04/28/17	EPA 8021B	

**General Chemistry Parameters by EPA / Standard Methods**

<b>Chloride</b>	<b>97.2</b>	1.18	mg/kg dry	1	P7D2103	04/21/17	04/24/17	EPA 300.0	
<b>% Moisture</b>	<b>15.0</b>	0.1	%	1	P7D2501	04/25/17	04/25/17	% calculation	

**Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M**

<b>C6-C12</b>	<b>1250</b>	294	mg/kg dry	10	P7D2505	04/24/17	04/24/17	TPH 8015M	
<b>&gt;C12-C28</b>	<b>7340</b>	294	mg/kg dry	10	P7D2505	04/24/17	04/24/17	TPH 8015M	
<b>&gt;C28-C35</b>	<b>1280</b>	294	mg/kg dry	10	P7D2505	04/24/17	04/24/17	TPH 8015M	
<i>Surrogate: 1-Chlorooctane</i>		121 %	70-130		P7D2505	04/24/17	04/24/17	TPH 8015M	
<i>Surrogate: o-Terphenyl</i>		86.0 %	70-130		P7D2505	04/24/17	04/24/17	TPH 8015M	
<b>Total Petroleum Hydrocarbon C6-C35</b>	<b>9860</b>	294	mg/kg dry	10	[CALC]	04/24/17	04/24/17	calc	

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**S-2 1"**  
**7D21003-04 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Permian Basin Environmental Lab, L.P.**

**Organics by GC**

Benzene	ND	0.0241	mg/kg dry	20	P7D2803	04/26/17	04/27/17	EPA 8021B	
<b>Toluene</b>	<b>0.103</b>	0.0482	mg/kg dry	20	P7D2803	04/26/17	04/27/17	EPA 8021B	
<b>Ethylbenzene</b>	<b>0.201</b>	0.0241	mg/kg dry	20	P7D2803	04/26/17	04/27/17	EPA 8021B	
<b>Xylene (p/m)</b>	<b>0.840</b>	0.0482	mg/kg dry	20	P7D2803	04/26/17	04/27/17	EPA 8021B	
<b>Xylene (o)</b>	<b>0.422</b>	0.0241	mg/kg dry	20	P7D2803	04/26/17	04/27/17	EPA 8021B	
<i>Surrogate: 1,4-Difluorobenzene</i>		75.6 %	75-125		P7D2803	04/26/17	04/27/17	EPA 8021B	
<i>Surrogate: 4-Bromofluorobenzene</i>		85.2 %	75-125		P7D2803	04/26/17	04/27/17	EPA 8021B	

**General Chemistry Parameters by EPA / Standard Methods**

<b>Chloride</b>	<b>27.3</b>	1.20	mg/kg dry	1	P7D2103	04/21/17	04/24/17	EPA 300.0	
<b>% Moisture</b>	<b>17.0</b>	0.1	%	1	P7D2501	04/25/17	04/25/17	% calculation	

**Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M**

C6-C12	ND	151	mg/kg dry	5	P7D2505	04/24/17	04/24/17	TPH 8015M	
<b>&gt;C12-C28</b>	<b>866</b>	151	mg/kg dry	5	P7D2505	04/24/17	04/24/17	TPH 8015M	
<b>&gt;C28-C35</b>	<b>214</b>	151	mg/kg dry	5	P7D2505	04/24/17	04/24/17	TPH 8015M	
<i>Surrogate: 1-Chlorooctane</i>		95.7 %	70-130		P7D2505	04/24/17	04/24/17	TPH 8015M	
<i>Surrogate: o-Terphenyl</i>		97.3 %	70-130		P7D2505	04/24/17	04/24/17	TPH 8015M	
<b>Total Petroleum Hydrocarbon C6-C35</b>	<b>1080</b>	151	mg/kg dry	5	[CALC]	04/24/17	04/24/17	calc	

**Organics by GC - Quality Control**  
**Permian Basin Environmental Lab, L.P.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch P7D2803 - General Preparation (GC)**

<b>Blank (P7D2803-BLK1)</b>										
					Prepared: 04/26/17 Analyzed: 04/27/17					
Benzene	ND	0.00100	mg/kg wet							
Toluene	ND	0.00200	"							
Ethylbenzene	ND	0.00100	"							
Xylene (p/m)	ND	0.00200	"							
Xylene (o)	ND	0.00100	"							
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.0527</i>		<i>"</i>	<i>0.0600</i>		<i>87.8</i>	<i>75-125</i>			
<i>Surrogate: 1,4-Difluorobenzene</i>	<i>0.0481</i>		<i>"</i>	<i>0.0600</i>		<i>80.2</i>	<i>75-125</i>			

<b>LCS (P7D2803-BS1)</b>										
					Prepared: 04/26/17 Analyzed: 04/27/17					
Benzene	0.0850	0.00100	mg/kg wet	0.100		85.0	70-130			
Toluene	0.108	0.00200	"	0.100		108	70-130			
Ethylbenzene	0.0994	0.00100	"	0.100		99.4	70-130			
Xylene (p/m)	0.163	0.00200	"				70-130			
Xylene (o)	0.0858	0.00100	"				70-130			
<i>Surrogate: 1,4-Difluorobenzene</i>	<i>0.0674</i>		<i>"</i>	<i>0.0600</i>		<i>112</i>	<i>75-125</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.0614</i>		<i>"</i>	<i>0.0600</i>		<i>102</i>	<i>75-125</i>			

<b>LCS Dup (P7D2803-BSD1)</b>										
					Prepared: 04/26/17 Analyzed: 04/27/17					
Benzene	0.0813	0.00100	mg/kg wet	0.100		81.3	70-130	4.44	20	
Toluene	0.0996	0.00200	"	0.100		99.6	70-130	7.62	20	
Ethylbenzene	0.0922	0.00100	"	0.100		92.2	70-130	7.56	20	
Xylene (p/m)	0.153	0.00200	"				70-130		20	
Xylene (o)	0.0816	0.00100	"				70-130		20	
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.0628</i>		<i>"</i>	<i>0.0600</i>		<i>105</i>	<i>75-125</i>			
<i>Surrogate: 1,4-Difluorobenzene</i>	<i>0.0638</i>		<i>"</i>	<i>0.0600</i>		<i>106</i>	<i>75-125</i>			

<b>Matrix Spike (P7D2803-MS1)</b>										
			Source: 7D20006-01	Prepared: 04/26/17 Analyzed: 04/27/17						
Benzene	0.118	0.00109	mg/kg dry	0.109	ND	109	80-120			
Toluene	0.108	0.00217	"	0.109	ND	99.8	80-120			
Ethylbenzene	0.101	0.00109	"	0.109	ND	92.5	80-120			
Xylene (p/m)	0.143	0.00217	"		ND		80-120			
Xylene (o)	0.113	0.00109	"		ND		80-120			
<i>Surrogate: 1,4-Difluorobenzene</i>	<i>0.0700</i>		<i>"</i>	<i>0.0652</i>		<i>107</i>	<i>75-125</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.0681</i>		<i>"</i>	<i>0.0652</i>		<i>104</i>	<i>75-125</i>			

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**Organics by GC - Quality Control**  
**Permian Basin Environmental Lab, L.P.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch P7D2803 - General Preparation (GC)**

**Matrix Spike Dup (P7D2803-MSD1)**

Source: 7D20006-01

Prepared: 04/26/17 Analyzed: 04/27/17

Benzene	0.129	0.00109	mg/kg dry	0.109	ND	119	80-120	8.68	20	
Toluene	0.132	0.00217	"	0.109	ND	121	80-120	19.2	20	R2
Ethylbenzene	0.127	0.00109	"	0.109	ND	116	80-120	22.9	20	R2
Xylene (p/m)	0.195	0.00217	"		ND		80-120		20	
Xylene (o)	0.120	0.00109	"		ND		80-120		20	
Surrogate: 4-Bromofluorobenzene	0.0756		"	0.0652		116	75-125			
Surrogate: 1,4-Difluorobenzene	0.0712		"	0.0652		109	75-125			

**Batch P7E0107 - General Preparation (GC)**

**Blank (P7E0107-BLK1)**

Prepared & Analyzed: 04/28/17

Benzene	ND	0.00100	mg/kg wet							
Toluene	ND	0.00200	"							
Ethylbenzene	ND	0.00100	"							
Xylene (p/m)	ND	0.00200	"							
Xylene (o)	ND	0.00100	"							
Surrogate: 1,4-Difluorobenzene	0.0491		"	0.0600		81.9	75-125			
Surrogate: 4-Bromofluorobenzene	0.0580		"	0.0600		96.7	75-125			

**LCS (P7E0107-BS1)**

Prepared & Analyzed: 04/28/17

Benzene	0.0849	0.00100	mg/kg wet	0.100		84.9	70-130			
Toluene	0.0973	0.00200	"	0.100		97.3	70-130			
Ethylbenzene	0.112	0.00100	"	0.100		112	70-130			
Xylene (p/m)	0.222	0.00200	"				70-130			
Xylene (o)	0.108	0.00100	"				70-130			
Surrogate: 1,4-Difluorobenzene	0.0632		"	0.0600		105	75-125			
Surrogate: 4-Bromofluorobenzene	0.0671		"	0.0600		112	75-125			

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**Organics by GC - Quality Control**  
**Permian Basin Environmental Lab, L.P.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch P7E0107 - General Preparation (GC)**

**LCS Dup (P7E0107-BSD1)**

Prepared & Analyzed: 04/28/17

Benzene	0.0832	0.00100	mg/kg wet	0.100		83.2	70-130	1.96	20	
Toluene	0.0998	0.00200	"	0.100		99.8	70-130	2.50	20	
Ethylbenzene	0.125	0.00100	"	0.100		125	70-130	10.9	20	
Xylene (p/m)	0.214	0.00200	"				70-130		20	
Xylene (o)	0.104	0.00100	"				70-130		20	
Surrogate: 4-Bromofluorobenzene	0.0696		"	0.0600		116	75-125			
Surrogate: 1,4-Difluorobenzene	0.0650		"	0.0600		108	75-125			

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**General Chemistry Parameters by EPA / Standard Methods - Quality Control**  
**Permian Basin Environmental Lab, L.P.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch P7D2103 - *** DEFAULT PREP ***</b>										
<b>Blank (P7D2103-BLK1)</b> Prepared: 04/20/17 Analyzed: 04/21/17										
Chloride	ND	1.00	mg/kg wet							
<b>LCS (P7D2103-BS1)</b> Prepared: 04/20/17 Analyzed: 04/21/17										
Chloride	384	1.00	mg/kg wet	400		96.0	80-120			
<b>LCS Dup (P7D2103-BSD1)</b> Prepared: 04/20/17 Analyzed: 04/21/17										
Chloride	406	1.00	mg/kg wet	400		101	80-120	5.50	20	
<b>Duplicate (P7D2103-DUP1)</b> Source: 7D20009-01 Prepared: 04/20/17 Analyzed: 04/21/17										
Chloride	4220	27.2	mg/kg dry		4270			1.33	20	
<b>Duplicate (P7D2103-DUP2)</b> Source: 7D21002-01 Prepared: 04/20/17 Analyzed: 04/24/17										
Chloride	2160	10.5	mg/kg dry		2180			1.07	20	
<b>Matrix Spike (P7D2103-MS1)</b> Source: 7D20009-01 Prepared: 04/20/17 Analyzed: 04/21/17										
Chloride	6230	27.2	mg/kg dry	2170	4270	90.2	80-120			
<b>Batch P7D2501 - *** DEFAULT PREP ***</b>										
<b>Blank (P7D2501-BLK1)</b> Prepared & Analyzed: 04/25/17										
% Moisture	ND	0.1	%							
<b>Duplicate (P7D2501-DUP1)</b> Source: 7D21001-01 Prepared & Analyzed: 04/25/17										
% Moisture	5.0	0.1	%		6.0			18.2	20	

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**Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M - Quality Control**  
**Permian Basin Environmental Lab, L.P.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch P7D2403 - TX 1005**

**Blank (P7D2403-BLK1)**

Prepared & Analyzed: 04/21/17

C6-C12	ND	25.0	mg/kg wet							
>C12-C28	ND	25.0	"							
>C28-C35	ND	25.0	"							
Surrogate: 1-Chlorooctane	96.0		"	100		96.0	70-130			
Surrogate: o-Terphenyl	46.5		"	50.0		92.9	70-130			

**LCS (P7D2403-BS1)**

Prepared & Analyzed: 04/21/17

C6-C12	788	25.0	mg/kg wet	1000		78.8	75-125			
>C12-C28	760	25.0	"	1000		76.0	75-125			
Surrogate: 1-Chlorooctane	93.4		"	100		93.4	70-130			
Surrogate: o-Terphenyl	41.4		"	50.0		82.7	70-130			

**LCS Dup (P7D2403-BSD1)**

Prepared & Analyzed: 04/21/17

C6-C12	815	25.0	mg/kg wet	1000		81.5	75-125	3.29	20	
>C12-C28	776	25.0	"	1000		77.6	75-125	2.08	20	
Surrogate: 1-Chlorooctane	97.2		"	100		97.2	70-130			
Surrogate: o-Terphenyl	43.8		"	50.0		87.6	70-130			

**Matrix Spike (P7D2403-MS1)**

Source: 7D20006-01

Prepared: 04/21/17 Analyzed: 04/24/17

C6-C12	411	27.2	mg/kg dry	1090	20.5	36.0	75-125			QM-07
>C12-C28	426	27.2	"	1090	24.1	37.0	75-125			QM-07
Surrogate: 1-Chlorooctane	55.1		"	109		50.7	70-130			S-GCI
Surrogate: o-Terphenyl	25.4		"	54.3		46.7	70-130			S-GCI

**Matrix Spike Dup (P7D2403-MSD1)**

Source: 7D20006-01

Prepared: 04/21/17 Analyzed: 04/24/17

C6-C12	415	27.2	mg/kg dry	1090	20.5	36.3	75-125	0.847	20	QM-07
>C12-C28	428	27.2	"	1090	24.1	37.2	75-125	0.618	20	QM-07
Surrogate: 1-Chlorooctane	55.0		"	109		50.6	70-130			S-GCI
Surrogate: o-Terphenyl	25.3		"	54.3		46.6	70-130			S-GCI

Fasken Oil & Ranch, Ltd.  
6101 Holiday Hill Road  
Midland TX, 79707

Project: Gossett '20' Battery  
Project Number: [none]  
Project Manager: Aaron Pachlhofer

Fax: 43-687-1570

**Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M - Quality Control**  
**Permian Basin Environmental Lab, L.P.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch P7D2505 - TX 1005**

**Blank (P7D2505-BLK1)**

Prepared & Analyzed: 04/24/17

C6-C12	ND	25.0	mg/kg wet							
>C12-C28	ND	25.0	"							
>C28-C35	ND	25.0	"							
Surrogate: 1-Chlorooctane	82.2		"	100		82.2	70-130			
Surrogate: o-Terphenyl	44.8		"	50.0		89.5	70-130			

**LCS (P7D2505-BS1)**

Prepared & Analyzed: 04/24/17

C6-C12	803	25.0	mg/kg wet	1000		80.3	75-125			
>C12-C28	851	25.0	"	1000		85.1	75-125			
Surrogate: 1-Chlorooctane	88.9		"	100		88.9	70-130			
Surrogate: o-Terphenyl	41.7		"	50.0		83.4	70-130			

**LCS Dup (P7D2505-BSD1)**

Prepared & Analyzed: 04/24/17

C6-C12	873	25.0	mg/kg wet	1000		87.3	75-125	8.32	20	
>C12-C28	1070	25.0	"	1000		107	75-125	23.1	20	R2
Surrogate: 1-Chlorooctane	113		"	100		113	70-130			
Surrogate: o-Terphenyl	52.1		"	50.0		104	70-130			

**Matrix Spike (P7D2505-MS1)**

Source: 7D24005-01

Prepared: 04/24/17 Analyzed: 04/25/17

C6-C12	863	28.1	mg/kg dry	1120	ND	76.8	75-125			
>C12-C28	1100	28.1	"	1120	17.8	96.1	75-125			
Surrogate: 1-Chlorooctane	118		"	112		105	70-130			
Surrogate: o-Terphenyl	52.2		"	56.2		92.8	70-130			

**Matrix Spike Dup (P7D2505-MSD1)**

Source: 7D24005-01

Prepared: 04/24/17 Analyzed: 04/25/17

C6-C12	819	28.1	mg/kg dry	1120	ND	72.9	75-125	5.28	20	QM-05
>C12-C28	1030	28.1	"	1120	17.8	90.0	75-125	6.55	20	
Surrogate: 1-Chlorooctane	113		"	112		101	70-130			
Surrogate: o-Terphenyl	50.2		"	56.2		89.3	70-130			

### Notes and Definitions

S-GC1	Surrogate recovery outside of control limits. A second analysis confirmed the original results..
S-GC	Surrogate recovery outside of control limits. The data was accepted based on valid recovery of the remaining surrogate.
R2	The RPD exceeded the acceptance limit.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
QM-05	The spike recovery was outside acceptance limits for the MS and/or MSD due to matrix interference. The LCS and/or LCSD were within acceptance limits showing that the laboratory is in control and the data is acceptable.
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
LCS	Laboratory Control Spike
MS	Matrix Spike
Dup	Duplicate

Report Approved By:  Date: 5/2/2017

Brent Barron, Laboratory Director/Technical Director

Fasken Oil & Ranch, Ltd.  
6101 Holiday Hill Road  
Midland TX, 79707

Project: Gossett '20' Battery  
Project Number: [none]  
Project Manager: Aaron Pachlhofer

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